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Application Serial Number: 10/579,338
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DATE: 03/13/2007

PATENT APPLICATION: US/10/579,338

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1 <110> APPLICANT: MARINE BIOTECHNOLOGY INSTITUTE CO., LTD.
 2 Yasuhiro NISHIDA et al.
 3 <120> TITLE OF INVENTION: NOVEL CAROTENOID HYDROXYLASE GENE, METHOD FOR PREPARING
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 4 CAROTENOID, AND NOVEL GERANYLGERANYL PYROPHOSHATE SYNTHASE
 5 <130> FILE REFERENCE: 3749-0111PUS1
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 7 <141> CURRENT FILING DATE: 2006-05-15
 8 <150> PRIOR APPLICATION NUMBER: JP 2003/388165
 9 <151> PRIOR FILING DATE: 2003-11-26
 10 <150> PRIOR APPLICATION NUMBER: JP 2004/165919
 11 <151> PRIOR FILING DATE: 2004-06-03
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221 Ile Ile Gly Leu Arg Tyr Leu Leu Val Gly Ala Ala Ala His Gly Leu
222 15 20 25 30
223 ctg tgg gcc ggg gcg ggc cgg gga cgg gcg ctg aac ctg cgg ccg ccg 10885
224 Leu Trp Ala Gly Ala Gly Arg Gly Arg Ala Leu Asn Leu Arg Pro Pro
225 35 40 45
226 gcg atg aag cgc atc cgc gcc gag atc gtc gcc tcc ctg atc gcc tgc 10933
227 Ala Met Lys Arg Ile Arg Ala Glu Ile Val Ala Ser Leu Ile Ala Cys
228 50 55 60
229 ccc atc tac gcc ctg ccg gcg gcc ctg gtg ctg gag ctg tgg aag cgg 10981
230 Pro Ile Tyr Ala Leu Pro Ala Ala Leu Val Leu Glu Leu Trp Lys Arg
231 65 70 75
232 ggc ggg acg gcg atc tac agc gat ccc gac gcc tgg ccc ctg tgg tgg 11029
233 Gly Gly Thr Ala Ile Tyr Ser Asp Pro Asp Ala Trp Pro Leu Trp Trp
234 80 85 90
235 ctg ccg gtc agt ctg atc gtc tat ctg ctg gcg cac gac gcc ttc tac 11077
236 Leu Pro Val Ser Leu Ile Val Tyr Leu Leu Ala His Asp Ala Phe Tyr
237 95 100 105 110
238 tac tgg gtg cac agg gcc ctg cat cac ccg cgc gtc ttc ggc tgg gcc 11125
239 Tyr Trp Val His Arg Ala Leu His His Pro Arg Val Phe Gly Trp Ala
240 115 120 125
241 cat gcc gaa cac cac cgg tcg cgc gac ccc agc gcc ttc gcc tcc ttc 11173

```

RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 03/13/2007

PATENT APPLICATION: US/10/579,338

TIME: 16:47:15

Input Set : N:\Crf4\03082007\K579338.raw

Output Set: N:\CRF4\03132007\J579338.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:37; N Pos. 9,12,15,18

Seq#:38; N Pos. 3,9,12,15,18

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 3

VERIFICATION SUMMARY

DATE: 03/13/2007

PATENT APPLICATION: US/10/579,338

TIME: 16:47:15

Input Set : N:\Crf4\03082007\K579338.raw

Output Set: N:\CRF4\03132007\J579338.raw

L:6 M:270 C: Current Application Number differs, Replaced Current Application Number

L:828 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0

L:857 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0